SUBAI>

1.   A   video   storage   and   display   system,
comprising:

a plurality of video cameras, each outputting a
signal representative of a video image;

5   means to receive the signals from each camera and
digitally compress the images;

a computer interfaced to the following devices:

a display screen,

means to receive an operator input, and

10   a high-capacity storage medium,

the   computer   being   programmed   to   perform   the
following functions:

display the digitally compressed images from
the cameras in different windows on the display screen,

15   each window having a dimension in pixels,

vary the dimensions and the rate at which a
particular image is updated in its window in accordance
with an externally derived command input,

store the digitally compressed images in the
20   high-capacity storage medium, and

vary the dimensions and the rate at which a
particular image is stored in accordance with an externally
command derived input.

2.   The   video   storage   and   display   system   of
25   claim 1, further including means for sensing an aspect of
the image associated with at least one of the video cameras
to generate the externally derived command responsible for
varying the dimensions and the rate at which a particular
image is updated in its window.

2,
3. The video storage and display system of claim 1, further including means associated with the computer for controlling the ~~image gathering capabilities~~ operation of one or more of the video cameras.

5   3
4. The video storage and display system of claim 1, wherein the means to digitally compress the image from a particular camera is disposed at the location of the camera.

4.
5. The video storage and display system of
10   claim 1, wherein the means to digitally compress the image from a particular camera is disposed at the location of the computer.

5
6. The video storage and display system of claim 1, further including a separate computer associated
15   with each camera, the computers being networked together over a common communication bus, enabling an operator situated at a particular computer to display the images gathered by other cameras ~~to be displayed~~ in separate windows on ~~the~~ that operator's display screen.

6.
20   7. The video storage and display system of claim 1, wherein the high-capacity storage medium comprises a magnetic tape.

7.
8. The video storage and display system of claim 1, wherein the high-capacity storage medium comprises
25   a magnetic disk.

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SUB A2)   9. The video storage and display system of claim 1, including two forms of high-capacity storage media, one being randomly searchable while the other continues to record.

5   8. 10. The method of simultaneously displaying and storing multiple video images, comprising the steps of:

receiving video images from a plurality of sources;

digitizing one or more of the images if not already in digital form;

displaying at least certain of the digitized images in separate windows on a display device, using a first, predetermined frame rate and resolution associated with each window; and

15   simultaneously storing the displayed images using a second, predetermined frame rate and resolution associated with each image.

9. 11. The method of claim 8. 10. further including the step of receiving a command to ~~determine~~ set the frame rate and resolution associated with the display and storage of a particular image.

10. 12. The method of claim 9. 11. wherein the command is based upon an operator input.

11. 13. The method of claim 9. 11. wherein the command is based upon an external stimulus.

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12.
~~14.~~   The method of simultaneously displaying and storing multiple video images, comprising the steps of:

receiving video images from a plurality of sources;

5   digitizing one or more of the images if not already in digital form;

displaying at least certain of the digitized images in separate windows on a display device, using a first set of temporal and spatial parameters associated

10   with each image in each window;

simultaneously storing the displayed images using a second set of temporal and spatial parameters associated with each image.

13.
~~15.~~   The method of claim ~~14~~ 12, the temporal

15   parameters including frame rate.

14.
~~16.~~   The method of claim ~~14~~ 12, the spatial parameters including image dimension in pixels.

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